

ABSTRACT

Water height holds an important role in a few aspects in life. It can be fatal if left unknown, both for humans and nature. That's why this prototype is made. With this prototype, it's hope is to be a warning to people near a water that in constant increase.

This prototype is built using NodeMCU ESP 8266, ultrasonic sensor, and a solar panel. Data from the sensor will be send to telegram for the user.

This system has a results of parameter, such as 0.37464 s delay, 23.65 Kb/s throughput, and 0.14% packet loss . As for the transmission error, this prototype has a 5% error.

Keyword: Sensors, Ultrasonic, Water Height, ESP8622-12E, Arduino.